

Application No. 09/943,610  
Attorney Docket No 2001B081  
Amendment Dated November 25, 2003  
Reply to Office Action of July 7, 2003

**Amendments to the Claims:**

This listing of the claims will replace all prior versions and listing of claims in the applications:

**Listing of Claims:**

1. (Presently Amended) A method of making olefins, comprising contacting an oxygenate feed with at least two different zeolite catalysts to form an olefin composition, wherein a first zeolite catalysts comprising a ZSM-5 molecular sieve and a second zeolite catalyst comprising a zeolite molecular sieve selected from the group consisting essentially of ZSM-22, ZSM-23, ZSM-35, ZSM-48, and mixtures thereof.

2. (Original) The method of claim 1, wherein the oxygenate feed contains at least 70 wt.% oxygenate.

3. (Original) The method of claim 1, wherein the oxygenate feed contains at least 80 wt.% oxygenate.

4. (Original) The method of claim 1, wherein the oxygenate feed contains at least 90 wt.% oxygenate.

5. (Canceled)

6. (Presently Amended) The method of ~~claim 5~~claim 1, wherein the ZSM-5 molecular sieve is selected from the group consisting essentially of an unmodified ZSM-5, a phosphorous modified ZSM-5, a steam modified ZSM-5 having a micropore volume reduced to not less than 50% of that of the unsteamed ZSM-5, and mixtures thereof.

7. (Canceled)

Application No. 09/943,610  
Attorney Docket No 2001B081  
Amendment Dated November 25, 2003  
Reply to Office Action of July 7, 2003

8. (Canceled)

9. (Presently Amended) The method of claim 1, wherein ~~at least one of the zeolite catalysts~~ the second zeolite catalyst contains ~~comprises~~ at least one of the zeolite molecular sieves selected from the group consisting essentially of ZSM-22, ZSM-35, and mixtures thereof.

10. (Presently Amended) The method of claim 1, wherein ~~at least one of the zeolite catalysts~~ the second zeolite catalyst contains a ZSM-35 molecular sieve.

11. (Presently Amended) The method of claim 1, wherein ~~the zeolite catalysts~~ comprise the second zeolite catalyst ~~comprises~~ a zeolite catalyst containing a ZSM-5 molecular sieve and a zeolite catalyst containing a ZSM-22 molecular sieve, or a ZSM-35 molecular sieve or mixtures thereof.

12. (Presently Amended) The method of claim 1 ~~or 11~~, wherein the oxygenate feed is contacted with the at least two zeolite catalysts mixed together in one reactor.

13. (Presently Amended) The method of claim 1 ~~or 11~~, wherein the oxygenate feed is contacted ~~with the zeolite catalysts in a first bed containing a first the first zeolite catalyst containing~~ comprising a ZSM-5 molecular sieve and a second bed containing a the second zeolite catalyst containing ~~comprising molecular sieve selected from the group consisting of ZSM-22 molecular sieve, ZSM-35 molecular sieve, and or mixtures thereof.~~

14. (Presently Amended) The method of claim 1 ~~or 11~~, wherein the oxygenate feed is contacted with the at least two zeolite catalysts in separate reactors in series.

15. (Presently Amended) A method of making an olefin composition comprising:  
contacting an oxygenate with a first zeolite catalyst comprising a ZSM-5 molecular sieve to form an olefin product;

Application No. 09/943,610  
Attorney Docket No 2001B081  
Amendment Dated November 25, 2003  
Reply to Office Action of July 7, 2003

separating a butylene containing stream from the olefin product;  
and

contacting the butylene containing stream with a second zeolite catalyst comprising a zeolite molecular sieve selected from the group consisting of ZSM-22, ZSM-23, ZSM-35, ZSM-48, and mixtures thereof to form a second olefin product.

16. (Original) The method of claim 15, wherein the butylene containing stream contains at least 20 wt.% butylene.

17. (Original) The method of claim 16, wherein the butylene containing stream contains at least 40 wt.% butylene.

18. (Original) The method of claim 15, wherein the butylene containing stream contains at least 50 wt.% butylene.

19. (Canceled).

20. (Presently Amended) The method of ~~claim 19~~ claim 15, wherein the ZSM-5 is selected from the group consisting of unmodified ZSM-5, a phosphorous modified ZSM-5, a steam modified ZSM-5 having a micropore volume reduced to not less than 50% of that of the unsteamed ZSM-5, and mixtures thereof.

21. (Canceled).

22. (Presently Amended) The method of ~~claim 21~~ claim 1, wherein the first zeolite catalyst contains a ZSM-5 molecular sieve and the second zeolite catalyst ~~contains~~ comprises ZSM-22 or molecular sieve, ZSM-35 molecular sieve or mixtures thereof.

23. (Presently Amended) The method of claim 15 ~~or 22~~, wherein the oxygenate is contacted with the first zeolite in a fluidized-bed or riser reactor.